

**OVERSIGHT REPORT
NORTH BRONSON INDUSTRIAL AREA
BRONSON, MICHIGAN**

*K.S.
3/16/01*

16 March 2001

Prepared for:

U.S. Environmental Protection Agency
Region 5
Emergency and Remedial Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Assignment No.: 031-ROBE-051C
Document Control No.: RFW031-2A-AHSJ

**OVERSIGHT OF PRE-DESIGN STUDIES WORK
NORTH BRONSON INDUSTRIAL AREA SITE
BRONSON, BRANCH COUNTY, MICHIGAN
27 FEBRUARY - 9 MARCH 2001**

This report summarizes the field oversight of pre-design studies work by ARCADIS (Geraghty and Miller) at the North Bronson Industrial Area Site, in Bronson, Michigan. A Roy F. Weston, Inc. (WESTON®) Geologist provided oversight support on 5 of the 8 possible workdays. Photodocumentation of oversight observations is attached to this report.

Field activities at the Site were performed with the purpose of addressing the requirements outlined in the Consent Decree filed in United States District Court for the Western District of Michigan, Southern Division, United States of America vs. Bronson Plating Company, et. Al., entered on 29 February 2000. The data collected during the field activities will be utilized in conjunction with data previously obtained during the Remedial Investigation (RI) to execute an appropriate Remedial Design (RD) and implement the Remedial Action (RA) for the Site, as required in the Record of Decision (ROD).

27 February 2001

Tuesday

Weather: 28° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II

Completed field tasks at the end of the day included the following:

Monitoring Wells Installed

- MW-29
- MW-32S
- MW-32I

Soil Borings Completed

- AGM-SB4
- AGM-SB2

Additional site concerns:

MDEQ expresses dissatisfaction pertaining to the lack of impact their XRF data was having on sample selection. MDEQ felt that a field instrument such as the XRF should be used to identify sample intervals based on the field measurements. WESTON agreed with MDEQ that the XRF was a useful screening tool, however, it's use was not in the Work Plan and that the objective of the sampling task would likely be fulfilled without using the XRF to designate samples. MDEQ indicated to ARCADIS that they would like to see some particular intervals sampled. WESTON agreed with the MDEQ that the additional samples would provide useful data. ARCADIS was informed of Weston's opinion that these additional samples may be useful but that the decision to send the sample to the lab for analysis was their choice. WESTON informed MDEQ and ARCADIS that the U.S. EPA would be informed of the MDEQ concerns pertaining to the XRF.

28 February 2001

Wednesday

Weather: 28° F and fair conditions

WESTON oversight not present - the following information was obtained from
discussions with MDEQ and ARCADIS personnel on March 1, 2001.

Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper
Joeseeph Walczak	MDEQ	Environmental Quality Analyst

On 27 February 2001, ARCADIS organized equipment and calibrated instruments for two teams of field personnel. Air monitoring equipment included CGI/O2 and FID meters. The CGI/O2 meter was calibrated to a 50% LEL pentane source. The FID (OVA) meter was calibrated to 100-ppm methane. One team was tasked with monitoring well installation while the other team would advance soil borings. MDEQ (Joeseeph Walczak) was on site and monitoring soil samples using an XRF meter for field measurements of metals concentrations in soil borings.

Following the advancing of AGM-SB-6 the drill rig became stuck in the bottom of the southernmost eastern lagoon. Upon getting the rig out of the lagoon it was noted that excessive soil had coated the track of the ATV drill rig. The drill rig was then given minimal decontamination at the eastern lagoon area and then transported to the western lagoon decon pad for a thorough decontamination.

Air monitoring was observed at all well/soil boring locations where WESTON oversight personnel were present. Decontamination of all reusable measuring equipment between wells was observed at the wells where oversight was present. No deficiencies were noted in regards to following the approved Work Plan.

Completed field tasks at the end of the day included the following:

Monitoring Wells Installed

- MW-35S
- MW-35I

Soil Borings Completed

- AGM-SB1
- AGM-SB3
- AGM-SB5
- AGM-SB6

Additional site concerns:

ARCADIS has confrontation with owner of property where MW33-S/I is proposed to be located. The property owner (Kim Eichler) confronts John Keller (ARCADIS) and informs him that he is trespassing, that he never signed an access agreement, will not sign an access agreement, and that he wants John Keeler to stay off his property. WESTON contacts the property owner in person the next day and following an explanation of proposed work and a lengthy discussion the property owner agrees to sign the access agreement.

2 March 2001

Friday

Weather: 33° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper

Monitoring Wells Abandoned

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5
- MW-6

Sediment Samples Collected

- SD-25
- SD-26
- SD-27

Additional site concerns:

MDEQ (Chuck Graff) calls WESTON in the evening and expresses dissatisfaction pertaining to the quality of well development by ARCADIS. This dissatisfaction focuses mainly around the lack of surging. WESTON informs MDEQ that ARCADIS will be contacted and proper well development procedures discussed. WESTON contacts John Keeler (ARCADIS) and discusses the requirements for proper well development. John Keeler states that ARCADIS will develop wells more in line with the expectations of the MDEQ.

3 March 2001

Saturday

Weather: 28° F and fair conditions

WESTON oversight not present - the following information was obtained from
discussions with ARCADIS personnel on March 4, 2001.

4 March 2001

Sunday

Weather: 33° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper

On 4 March 2001, ARCADIS, WESTON and Boart Longyear personnel were on site. WESTON noted no deviations from the Work Plan or HASP.

Active tasks for the day included well development activities.

WESTON was able to contact Kim Eichler at around 11:40 AM and obtain a signature on the access agreement. WESTON transfers the signed access agreement to John Keeler of ARCADIS. John informs WESTON that the wells MW33 S/I will be drilled the following day.

Additional site concerns:

None.

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Randy Radke	Boart Longyear	Driller
Jason Drabek	Boart Longyear	Drillers Helper

On 6 March 2001, ARCADIS, WESTON and Boart Longyear personnel were on site. No deviations from the Work Plan were identified when oversight was present.

The day's activities included well development. ARCADIS plans to suspend development activities until Monday, 12 March 2001. WESTON discusses schedule with ARCADIS.

Additional site concerns:

None

PHOTODOCUMENTATION



Area where ATV drill rig was stuck in eastern lagoon.



Discoloration of eastern lagoon sediments in area where ATV drill rig was stuck.



Installation of MW32 S/I at western lagoons.



Western lagoon.



Monitoring well installation (MW-29) at western lagoons.



Well development at MW34 S/I at eastern lagoons.



Well abandonment of MW-3 at western lagoons.



Well development of MW17 S/D at eastern lagoons



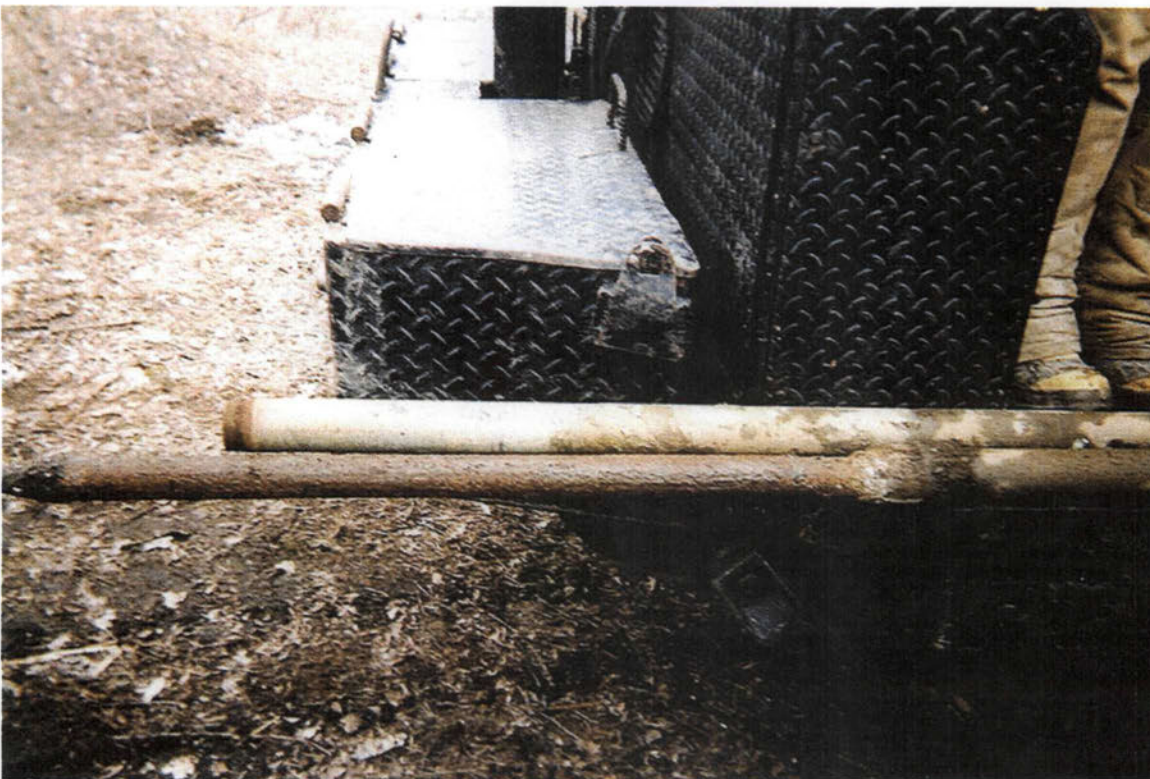
Decontamination of ATV drill rig.



ATV drill rig on decontamination pad.



Decontamination pad at western lagoons.



Abandoned monitoring well MW-3 at western lagoons.

FIELD LOG

NORTH BRUNSON INDUSTRIAL
FIELD INSPECTION
LOG RECORD

20064-031-100-3010

RECORD

4-430-306

National

56 521

200



AVERY

White Paper

Made in U.S.A.

200 PAGE 9 5/8" X 6 1/4"

RECORD BOOK



CHARLES W. GRAFF

Geologist
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DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY



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Scientist/Environmental

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* SITE NOTES & CONTACT INFO *

PHONE #S

RICK S. CELL - 847.204.9892
WORK - 847-918-4088

USEPA

ROSITA CLARKE - 312.886.7251

DAN BRILLER (ARCADIS) 414-276-7742

JOHN KELLER (ARCADIS) CELL 414 339-0541

CHUCK GRAFF - 517-930-3073

DAVE ORRKE

191 S. MATTHESON

* SITE CONTACT INFO *

WESTON

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HYDROGEOLOGIST

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BRONSON INDUSTRIAL AREA

TUESDAY

27-FEB-01

ERIC CHATTERSON

28° F

FAIR

0730 ARRIVE @ SITE - ARCADIS (CONSULTANT)
& BOART LONGYEAR (DRILLERS) ALSO ON SITE
SITE IS: WASTE WATER TREATMENT
PLANT

BOART LONGYEAR IS

(K.W.) KEVIN WEISE - HELPER
(R.B.) ROYCE BROWN - HELPER
(M.M.) MIKE MUELLER - DRILLER
(R.R.) RAYMOND RADEE - DRILLER
(J.D.) JASON DRABEK - HELPER

ARCADIS IS

(J.K.) JOHN KETLER - GEOLOGIST-SCIENTIST II
(D.B.) DAVE BUSER - SCIENTIST II
(J.G.) JENNIFER GROTH - SCIENTIST II

0750 HEALTH & SAFETY MEETING ON
AIR MONITORING EQUIPMENT
GENERAL SAFETY, ETC.
ACTION LEVEL > 10 PPM on OVA

0830 CALIBRATE AIR MONITORING EQUIPMENT
COI/O₂ - CAL TO 50% LEL PERMANENT
OVA - CAL TO 100 PPM METHANE

0920 MDEQ ARRIVES

(C.G.) CHUCK GRAFF -

1000 SECOND PERSON FROM MDEQ ARRIVES

(J.W.) JOSEPH WALCZAK

1100 SPEAK TO STAN WELCH - PRESIDENT
OF BRONSON PLATING

1330 JOHN K. INSTALLING MW 29
(MW 6 - REPLACEMENT) WATER @ 25'
SILTY CLAY @ 6.5'

1410

DAVE B INSTALLING SOIL BORING
ON NW CORNER OF SOUTHERN
LAGOON (EAST LAGOON)

* WELLS INSTALLED BY JOHN KILGER

MW-29 TOTAL DEPTH 6.5

SCREEN 3.5' - 6.5' bgs

SAND 2.5 - 6.5' bgs

CONCRETE TO SURFACE

MW 32 S EOB 8'

SCREEN 3 - 8' bgs

SAND 2.5 - 8' bgs

BENTONITE 20 - 2.5' bgs

CONCRETE TO SURFACE

MW 32 I/S EOB 16' (SS)

SCREEN 9 - 12' bgs

SAND 8 - 12' bgs

BENTONITE 2 - 7' bgs

CONCRETE TO SURFACE

* BORINGS INSTALLED BY DAVE BUSICK

AGM-SB4 & AGM-SB2

E. O. C.

2-27-01

WEDNESDAY

28-FEB-01

28°F

ERIC CHATTERSON

FAIR

* — NOT ON SITE, NOTES
FROM DISCUSSIONS WITH
MOEQ & ARCADIS (3-01-01)

ON SITE

MOEQ

CHARLES GRAFF

TOESHA WALLZAK

ARCADIS

JOHN K.

JENNIFER G.

DAVE B.

BORINGS INSTALLED

AGM-SB-8

AGM-SB-9

AGM-SB-10

WELLS INSTALLED

MW-30

SCREEN 11' 3-13' Lgs & 4' bgs

* MOEQ OBJECTS TO 10' SCREEN WANTS 5' SCREEN

MW-34 S

MW-34 I

E. O. C.

2-28-01
3-1-01

THURSDAY

1-MAR-01

33°F

ERIC CHATTERSON

FAIR

1200 ARUE IN BRANSON
ON SITE IS

JOHN KELLER ARCADIS
JENNIFER GROTH ARCADIS
DAVE BUSSE ARCADIS

JOE WALCZAK MOEQ

BOAT LONGER DRIVERS
- DISCUSS ISSUES & DAYS
ACTIVITIES WITH JOHN KELLER
ISSUES:

ACCESS FOR MW-31
THE FARMER WHO OWNS LAND
DOES NOT WANT WELL IN
HIS FIELD - HE IS OK
WITH IT BEING INSTALLED
@ THE EDGE OF HIS FIELD

ACCESS WELL NEST
MW 33 S/1 - THE NEST
IS LOCATED ON COUNTY
PROPERTY, HOWEVER THE LAND
OWNER HAS DENIED ACCESS
TO DRIVE TO IT.

DRILL RIG STUCK IN
BOTTOM OF SOUTHERN MOST
EASTERN CANYON IN THE
MORNING - UPON GETTING IT
UNSTUCK IT WAS TRANSPORTED
VIA SEMI TO WESTERN
CANYON AREA FOR "DECON" "WELL"

1230 DECON ON DRILL RIG COMPLETE
1330 JOHN KELLER DRIVING MW33 S/1
@ EASTERN CANYON AREA

non responsive

1530 HAVE DISCUSSION WITH KIM
EICHNER ABOUT PERMISSION TO
INSTALL MW 33 S/1 - AFTER
TALKING WITH HIM, HE
GIVES PERMISSION -

1600 TAKE TO ROSITA CLARKE &
INFORM HER THAT MR EICHNER
HAS GIVEN PERMISSION - SHE
PLANS TO FAX PERMISSION
FORM TO CITY OFFICES
TOMORROW
MW-30

1515 HAVE DISCUSSION WITH
CHARLES GRAFF (G) ABOUT INSTALLATION
OF MW-30. CG WAS UNHAPPY
ABOUT THE USE OF A 10' SCREEN.
HE RECOMMENDED TO ARCADIS THAT
A 5' SCREEN BE USED, THEY
HOWEVER, CHOOSE TO FOLLOW THE
WORK PLAN & USED A 10' SCREEN.
I INFORM CG THAT I'LL HAVE
A DISCUSSION WITH ARCADIS
EXPLAINING THEIR ABILITY TO
MAKE AN EDUCATED FIELD DECISION
IN ^{CERTAIN} ~~SOME~~ CIRCUMSTANCES & DEVIATE
FROM THE WORK PLAN IF
THE OBSERVATIONS INDICATE IT

IS APPROPRIATE

WELLS INSTALLED 3-01-01

MW35-5

MW35-1

MW35 S/E INSTALLED FURTHER
SOUTH OF LOCATION SHOWN ON MAP
BORINGS INSTALLED

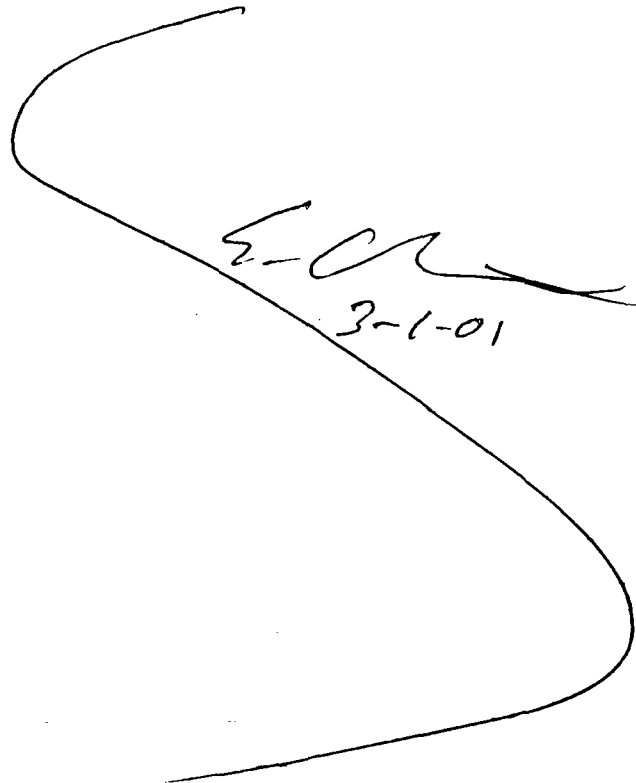
AGM-SB-6

AGM-SB-5

AGM-SB-3

AGM-SB-1

END OF RAE - REVIEW WORK
PLAN PROCEDURES ON WECC
DEVELOPMENT.



FRIDAY

2-MARCH-01

ERIC CHATERS ON

330F

FAIR

0845

ARRIVE @ SITE

ONSITE IS

ARCADIS

JOHN K. (J.K.)

DAVE B. (D.B.)

JENNIFER G. (J.G.)

MICHAEL HARRIS (MOER)

CHAD ROGERS (MOER)

CHUCK GRAFT (MOER) ON SITE

@ ~ 1030

BOAT LMAVER

2-DRILLERS 3-HELPERS (SAME AS 2-27-01)

1015

TAKE 3 HAND SAMPLES FROM
VALVE/DRAIN & HAVE MOER
SCREEN W/XRF. - METALS LEVELS
ARE MODERATELY HIGH (I.C. CR=2000)

1100

ATTEMPT TO CONTACT FIM EICHER
FOR SIGNING OF ACCESS AGREEMENT -
HE'S NOT HOME

1200

ATTEMPT 2ND TIME TO CONTACT
FIM EICHER - HIS TRUCK IS NOW
IN THE DRIVEWAY, HOWEVER HE
DOES NOT ANSWER THE DOOR OR
PHONE?

1300

LEAVE SITE

1630

TALK TO CHUCK GRAFT (MOER)

HE IS UNHAPPY ABOUT THE
POOR WELL DEVELOPMENT BY
ARCADIS - I TALK MAINLY THE
LACK OF SURFING. I INFORM
HIM THAT I'LL CONTACT
ARCADIS AND DISCUSS THE
OBSTACLES OF WELL DEVELOPMENT
AND THE PROCEDURES BEING
USED.

1700 DISCUSS WITH JOHN KEEZER
(ARCADIS) THE PROPER PROCEDURE
FOR WELL DEVELOPMENT & THE
NEED TO SURGE MULTIPLE TIMES
BETWEEN PUMPING. HE AGREES
STATES THAT HE WILL SURGE
THE WELL MORE OFTEN &
WILL ATTEMPT TO DISLodge AS
MANY FINE PARTICLES AS POSSIBLE
- WELLS ABANDONED
- ALL SIX SCHEDULED FOR
ABANDONMENT MW1-MW6
SEDIMENT SAMPLES TAKEN
SD 25
SD 26
SD 27
BORINGS INSTALLED
AGM-SB7
MONITORING WELLS INSTALLED
MW-31

EC
3-2-01

SATURDAY

3-MARCH

450F

ERIC CHATTERSON

FAIR

- NOT ON SITE - INFORMATION
OBTAINED FROM DISCUSSIONS
WITH ARCADIS (JOHN KEEZER).

SEDIMENT SAMPLES TAKEN

SD-18

SD-19

SD-20

SD-21

SD-22

SD-23

SD-24

EC
3-4-01

SUNDAY
ERIC CHATTERSON
4-MARCH-01

33°F
FAIR

- 1130 ON SITE W
BOAT (MOTOR (2 DRIVERS & 3 HELPERS)
ARCADIS
J.K.
J.G.
D.B.
- 1140 GET ~~FOR~~ ACCESS AGREEMENT
SIGNED BY KIM EICKLER &
GIVE TO JOHN KELLER.
- 1200 LUNCH
- 1245 - ARCADIS CONTINUING WELL
DEVELOPMENT
- 1330 DISCUSS SCHEDULE & PROCEDURES
WITH ARCADIS AS WELL AS
MOTOR CONCERNS
- 1345 OFFSITE

Eric
3-4-01

MONDAY
ERIC CHATTERSON
5-MARCH-01

30°F
FAIR

- NOT ONSITE - INFORMATION
FROM DISCUSSIONS WITH
ARCADIS & CHUCK GRAFF (ADEQ)
WELLS INSTALLED:
MW33 S
MW33 I
~~SEDIMENT SAMPLER TAKEN~~

Eric

3-6-01

TUESDAY
6-MARCH-01

ERIC CHATTELSON

FAR

1400 ON SITE W/
BOAT LINGER 1 DRIVER HARPER
J. K. (ARCADIS)
O. B. (ARCADIS) MW 12 S/O
1500 ARCADIS DEVELOPER 2:40-3:30 PM
1530 DISCUSS BAILING METHODS &
SUGGEST TRYING 2 RIGID ROD
FOR THE SURGE BLOCK TO
INCREASE POSITIVE PRESSURE
WHILE SURGING. J. K. STATES
HE WILL CONSTRUCT A RIGID
ROD SYSTEM FOR THE REMAINING
WELLS
1540 TALK TO (R) LICK SWEARINGEN WESTER
ABOUT FIELD PROGRESS, CONCERNS
ETC.
1600 CALL R.S. FOR CONFERENCE
CALL W/ ROSITA - SHE'S
NOT IN SO R.S. LEAVES
A MESSAGE,
1700 OFFSITE AFTER DISCUSSION
ON SCHEDULE WITH ARCADIS
- ARCADIS WILL BE ON SITE
MONDAY 3-12-01 (NOB RATE)
BEGIN WORK TUESDAY 3-13-01
JOHN KELLER SAYS HE'LL HAVE
A SPUD ROD FOR A SURGE
BLOCK HANDLE ON TUESDAY AS
REQUESTED BY MEER

$$b_1(z) = 3.1 - 0.1$$



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15 March 2001

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U.S. EPA Contract No.: 68-W7-0026

Work Assignment No.: 031-ROBE-051C

Document Control Number.: RFW031-2A-AHSJ

Re: Oversight of Work for Pre-Design Studies at North Bronson Industrial Area Site in
Bronson, Branch County, Michigan.

Dear Ms. Clarke:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the two-week oversight report for the North Bronson Industrial Area site in Bronson, Branch County, Michigan. The oversight report is for the period from 27 February through 9 March 2001.

The attached oversight report provides a summary of the daily observations, field logbook entries made by the WESTON® on-site representative, and photodocumentation of field activities.

If you have any questions please call me at 847-918-4088.

Very truly yours,

ROY F. WESTON, INC.

Richard A. Swearingen, P.E.
Site Manager

RAS:sk

